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ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10 072, 809
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3 Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
0 / Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
_	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001



OIPE

Does Not Comply Corrected Diskette Needed

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/072,809

DATE: 05/24/2002

TIME: 12:06:02

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Output Set: N:\CRF3\05242002\J072809.raw

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and uses
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C--> 11 <141> CURRENT FILING DATE: 2002-05-01
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PATENT APPLICATION: US/10/072,809 TIME: 12:06:02

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82 aaa cca cca tgc aga aaa gct tgt atc agt gag aaa ttt act gat ggt
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83 Lys Pro Pro Cys Arg Lys Ala Cys Ile Ser Glu Lys Phe Thr Asp Gly
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RAW SEQUENCE LISTING DATE: 05/24/2002 PATENT APPLICATION: US/10/072,809 TIME: 12:06:02

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RAW SEQUENCE LISTING DATE: 05/24/2002 PATENT APPLICATION: US/10/072,809 TIME: 12:06:02

Input Set : A:\PTO.DC.txt

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RAW SEQUENCE LISTING DATE: 05/24/2002 PATENT APPLICATION: US/10/072,809 TIME: 12:06:02

Input Set : A:\PTO.DC.txt

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266	Phe	Asp	Glu	Lys	Met	Thr	Lys	Thr	Gly	Ala	Glu	Ile	Leu	Ala	Glu	Glu	
267		50					55		_			60					
269	Ala	Lys	Thr	Leu	Ala	Ala	Ala	Leu	Leu	Glu	Glu	Glu	Ile	Met	Asp	Asn	
270						70					75				_	80	
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273	3 <211> LENGTH: 541																
274	4 <212> TYPE: DNA																
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278	<223	L> N2	AME/I	KEY:	CDS												
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281	<400)> SI	EQUE	NCE:	17		•										
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												Ile					
284					5					10					15		
286	ctc	ttt	gtt	gcc	tat	gag	gtg	caa	gct	aga	gaa	tgc	aaa	aca	gaa	agc	96
												Cys					
288				20	_		•		25	-		-	_	30			
290	aac	aca	ttt	cct	gga	ata	tgc	att	acc	aaa	cca	cca	tgc	aga	aaa	gct	144
												Pro					
292			35		-		-	40		-			45	_	-		
294	tgt	atc	agt	gag	aaa	ttt	act	gat	ggt	cat	tgt	agc	aaa	atc	ctc	aga	192
	-		_					_			_	Ser				_	
296	_	50			_		55	_	_		_	60	_			_	
298	agg	tgc	cta	tgt	act	aag	cca	tgt	gtg	ttt	gat	gag	aag	atg	act	aaa	240
299	Arg	Cys	Leu	Cys	Thr	Lys	Pro	Cys	Val	Phe	Asp	Glu	Lys	Met	Thr	Lys	
300	65					70					75		_			80	
302	aca	gga	gct	gaa	att	ttg	gct	gag	gaa	gca	aaa	act	ttg	gct	gca	gct	288
303	Thr	Gly	Ala	Glu	Ile	Leu	Ala	Glu	Glu	Ala	Lys	Thr	Leu	Ala	Ala	Ala	
304					85					90					95		
306	ttg	ctt	gaa	gaa	gag	ata	atg	gat	aac	taa	ttag	gagat	ta g	gaaga	aatt	:a	338
307	Leu	Leu	Glu	Glu	Glu	Ile	Met	Asp	Asn								
308				100					105								
																gttgt	398
312	gttt	taat	tg g	cttt	tagt	a go	cttt	tatt	aca	cttt	aaa	taag	rtgtg	gc a	ctto	caatcc	458
314	tttg	ıtgca	at c	ettge	cacta	ıa gt	ttat	ttgt	gta	cttt	taa	tgaa	aato	gac c	ettet	atggt	518
316	cttt	ggtt	aa a	aaaa	laaaa	a aa	ıa										541
	<210																
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320	<212	?> TY	PE:	PRT													
321	<213	> OF	GANI	SM:	Nico	otian	na al	.ata									
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		Ala	Arg	Ser	Leu	Cys	Phe	Met	Ala	Phe	Ala	Ile	Leu	Ala	Arg	Met	
325	1				5					10					15		

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/072,809

DATE: 05/24/2002 TIME: 12:06:03

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05242002\J072809.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:58; Xaa Pos. 1,2,4,5,6,8,9,11,13,15,16,17,18,19,21,22,23,25,26,28,30
Seq#:58; Xaa Pos. 31,33,35,36,37,38,39,40,42,45,46
Seq#:59; Xaa Pos. 2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:59; Xaa Pos. 24,25,26,27,28,29,30,32
Seq#:60; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:60; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33
Seq#:61; Xaa Pos. 2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:61; Xaa Pos. 24,25,26,27,28,29,30,32,33,34,36,37,38,40,41,43,45,47,48
Seq#:61; Xaa Pos. 49,50,51,53,54,55,57,58,60,62,63,65,67,68,69,70,71,72,74
Seq#:61; Xaa Pos. 77,78,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96
Seq#:61; Xaa Pos. 97,98,99,100,101,102,103,104,105,106,107,108,109,110,111
Seq#:61; Xaa Pos. 112

VERIFICATION SUMMARY DATE: 05/24/2002 PATENT APPLICATION: US/10/072,809 TIME: 12:06:03

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\05242002\J072809.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:1348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0 L:1351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:16 L:1354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:32 L:1508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0 L:1511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:16 L:1685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0 L:1688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:16 L:1691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:32 L:2169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0 L:2172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:16 L:2175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:32 L:2178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:48 L:2181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:64 L:2184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:80 L:2187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:96